

Supplementary Table 1. Crystallographic data and refinement statistics.

Structure	S46Y	S46Y, Zn peak	S46Y, Zn remote
Data collection			
Wavelength (Å)	0.9763	1.2815	1.2848
Unit cell parameters			
<i>a,b,c</i> (Å)	47.83, 73.51, 76.12	47.49, 73.13, 75.78	47.65, 73.29, 75.91
α,β,γ (degrees)	$\alpha=\beta=\gamma=90$	$\alpha=\beta=\gamma=90$	$\alpha=\beta=\gamma=90$
Space group	P2 ₁ 2 ₁	P2 ₁ 2 ₁	P2 ₁ 2 ₁
Solvent content (%)	56.64	56.64	56.64
Protein chains in AU	2	2	2
Resolution range (Å)	39.94-1.60	47.79-1.61	47.65-1.61
Highest resolution shell (Å)	1.69-1.60	1.69-1.61	1.70-1.61
Unique reflections	34555 (5013)	35203 (5075)	35198 (5072)
Redundancy	3.5 (3.1)	7.2 (7.3)	7.3 (7.4)
Completeness (%)	96.9 (97.5)	99.9 (100)	99.9 (100)
*R _{merge}	0.070 (0.439)	0.083 (0.794)	0.064 (0.424)
R _{meas}	0.082 (0.523)	0.104 (0.926)	0.074 (0.493)
Average I/σ(I)	9.3 (2.3)	10.9 (2.2)	14.3 (3.7)
Refinement			
R _{work} (%)	15.52		
R _{free} (%)	18.27		
Mean B value (Å ²)	29		
B from Wilson plot (Å ²)	16.9		
RMSD bond length (Å)	0.007		
RMSD bond angles (°)	0.859		
No. of amino acid residues	108		
No. of water molecules	303		
No. of metal ions	4		
Ramachandran plot			
Most favored regions (%)	99.55		
Allowed regions (%)	0.45		

Values of the highest resolution shell are given in parentheses.

$$*R_{\text{merge}} = \sum_h \sum_l |I_{hl} - \langle I_h \rangle| / \sum_h \sum_l |\langle I_h \rangle|$$